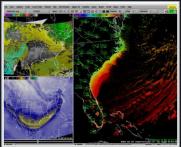
Building a Weather-Ready Nation

NWS Partners Meeting
January 14, 2016 • New Orleans, LA







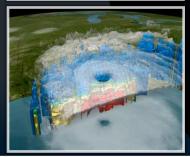






















Joe Pica

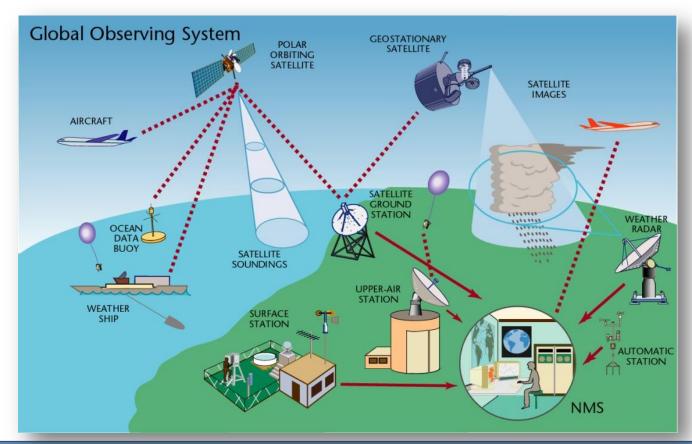
Director, Office of Observations



Observations Portfolio



Responsible for the collection of space, atmosphere, water, and climate <u>observational data owned or leveraged</u> by the NWS







Sustaining Critical Observations



Maintaining system availability to support the NWS mission -



NEXRAD

Maintain system availability > 96%



Upper Air

• Maintain 102 sites with GPS radiosondes; 2 launches per day



ASOS

• Maintain system at required sensor availability > 96%



Buoy Networks – Weather, DART, TAO

Average network data availability > 80%







NEXRAD Service Life Extension Program

- Signal Processor Technology Refresh
 - Development & Integration Testing Complete
 - System Testing Underway
 - Deployment Begins in FY16
- Transmitter Technology Refresh
 - Work Initiated
- Shelter Refurbishment
- Pedestal Refurbishment









Radiosonde Frequency Migration Project

- Due to the sale of "spectrum", radiosondes operating in the 1680 MHz band must be migrated to operate in the 403 MHz band.
- Funds from the "spectrum" sale are being used to finance the migration.
- "Autosonde" technologies are being evaluated as a potential alternative.









Automated Surface Observing System (ASOS) Acquisition Control Unit / Data Collection Package Redesign

- ACU / DCP components reaching obsolescence in the near future
- 2 ACU and 2 DCP Prototypes Built
- Preparing for System Tests
- Preparing for Drawing Validation and Level III Drawing Package release







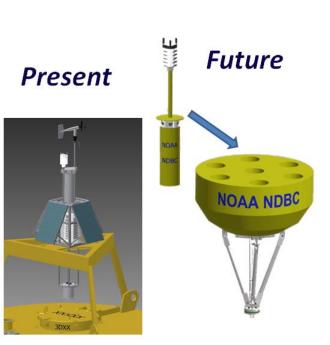


Self-Contained Ocean Observations Payload (SCOOP) Systems

- Smaller, easier to maintain
- Servicing can be conducted by smaller vessels, reducing cost

Past







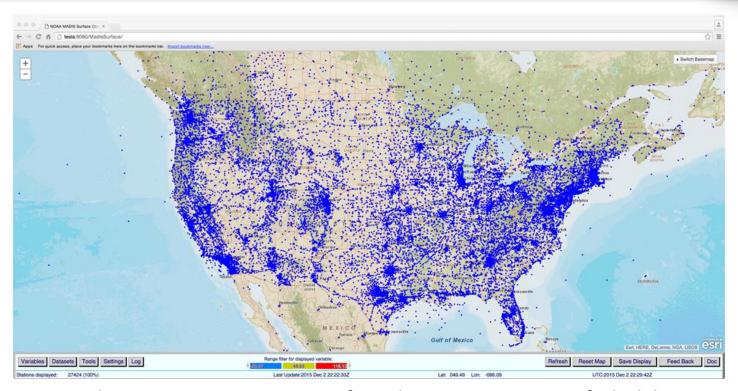




Leveraging Smart Data Buys



National Mesonet Program -



- As of FY15, National Mesonet supports 8000 surface observing sites, 4000 of which have soil moisture and 1400 have solar radiation measurements
- National Mesonet now includes the TAMDAR data set, which provides approximately 3500 aircraft soundings per day in the vicinity of 300 regional airports
- The program also supports 68 fixed location vertical profiling systems (mostly SODARS and radiometers), and the CASA network in the DFW region





Ensuring Readiness for Satellite Observations



DSCOVR

Launched February 11, 2015

Jason-3

Launch Date: January 17, 2016

COSMIC-2a

Launch Date: September 2016

GOES-R

Launch Date: October 14, 2016

JPSS-1

Launch Date: Q2 FY17





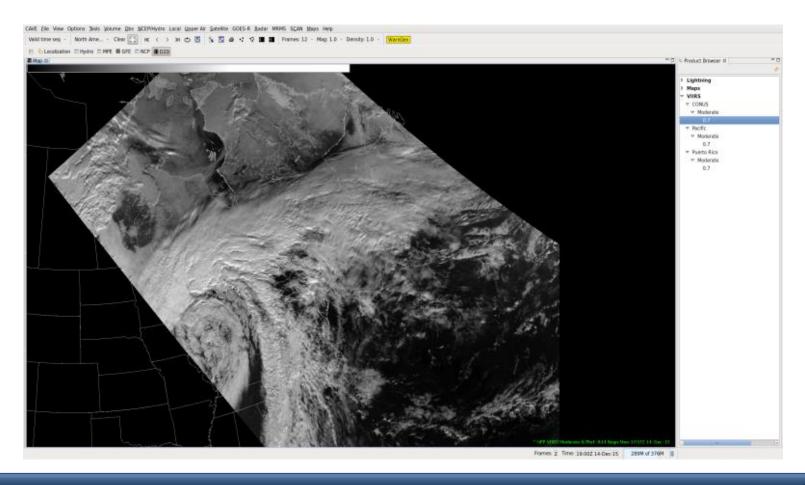


Ensuring Readiness for Satellite Observations



First S-NPP/VIIRS Near-Constant Contrast Products

- Across SBN and into AWIPS2 - Dec 14 2016









Questions?

